

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("3330645").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/02 14:21
S2	1	("4721287").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/29 15:21
S3	336	:266/217.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/10/29 16:04
S4	406	:266/280.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/10/29 16:04
S5	100	:S3 and nozzle	US-PGPUB; USPAT	ADJ	ON	2007/10/29 16:05
S6	70	:S4 and nozzle	US-PGPUB; USPAT	ADJ	ON	2007/10/29 16:28
S7	8758	:nozzle and refractory and metal and heat	US-PGPUB; USPAT	ADJ	ON	2007/10/30 11:49
S8	849	:nozzle and refractory and metal and heat and "266". :clas.	US-PGPUB; USPAT	ADJ	ON	2007/10/30 11:49
S9	88	:nozzle same refractory same metal same heat and :"266".clas.	US-PGPUB; USPAT	ADJ	ON	2007/10/30 11:50
S10	2859	:nozzle and "266".clas.	US-PGPUB; USPAT	ADJ	ON	2007/10/30 13:14
S11	204	:nozzle same refractory same furnace and "266".clas.	US-PGPUB; USPAT	ADJ	ON	2007/10/30 13:15
S14	170	:nozzle same refractory same heat and "266".clas.	US-PGPUB; USPAT	ADJ	ON	2007/11/01 08:14

S15	336	"266/217.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/11/01 13:15
S16	33	S15 and nozzle and (copper or stainless steel)	US-PGPUB; USPAT	ADJ	ON	2007/11/01 13:15
S17	406	"266/280.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/11/01 13:18
S18	15	S17 and nozzle and (copper or stainless steel)	US-PGPUB; USPAT	ADJ	ON	2007/11/01 13:18
S19	393	nozzle same heat conducting	US-PGPUB; USPAT	ADJ	ON	2007/11/01 13:23
S20	219	nozzle same heat conducting and gas	US-PGPUB; USPAT	ADJ	ON	2007/11/01 13:24
S21	1	("5871785").PN.	US-PGPUB; USPAT	OR	OFF	2007/11/01 13:32
S22	1	("3971548").PN.	US-PGPUB; USPAT	OR	OFF	2007/11/01 13:41
S23	1	("5371759").PN.	US-PGPUB; USPAT	OR	OFF	2007/11/01 13:42
S24	1392	"266".clas. and nozzle same refractory	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/06/23 16:32
S25	902	"266".clas. and nozzle same refractory and gas and metal	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/06/23 16:33
S26	546	"266".clas. and nozzle same refractory and gas and metal and (jacket or cover\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/06/23 16:34

S27	298	"266".clas. and nozzle same refractory and gas and metal and (jacket or cover\$3) and (nozzle same furnace)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/06/23 16:34
S28	12	S27 and nozzle.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/06/23 16:37
S29	115	nozzle.ti. and refractory and gas same furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/06/23 16:58
S30	144	"266/268.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/07/08 16:22
S31	30	"266/268.ccls. and nozzle and refractory	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/07/08 16:43
S32	339	"266/217.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/07/08 17:06
S33	33	S32 and nozzle same refractory and gas	US-PGPUB; USPAT	ADJ	ON	2008/07/08 17:06
S34	62	"266".clas. and nozzle same refractory and gas and metal and (heat\$3 near2 element)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/07/08 17:14
S35	268	"266/220.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:23

S36	853	266/99.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:23
S37	217	266/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:23
S38	146	266/268.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:23
S39	1457	S35 or S36 or S37 or S38	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:25
S40	191	S39 and nozzle same (gas or vapor)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:25
S41	122	S40 and refract\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:25
S42	66	S41 and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:25
S43	55	S42 and (copper or Cu or steel)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:26

S44	371	\$266/265.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:28
S45	261	\$39 and (nozzle or tuyere) same (gas or vapor)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:29
S46	160	\$45 and refract\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:29
S47	85	\$46 and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:29
S48	71	\$47 and (copper or Cu or steel)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:29
S50	280	\$39 and (nozzle or tuyere) same (gas or vapor or fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:32
S51	169	\$50 and refract\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:32
S52	92	\$51 and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 16:32

S53	77	\$52 and (copper or Cu or steel)	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 16:32
S54	290602	(nozzle or tuyere) same (gas or vapor or fluid)	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:03
S55	5753	\$54 and refract\$5 and furnace and (copper or Cu or steel)	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:04
S56	1137	\$55 and "266".clas.	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:05
S57	1019	\$56 and metal	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:05
S58	7747	(nozzle or tuyere) same (gas or vapor or fluid) same refractory	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:07
S59	2419	(nozzle or tuyere) same (gas or vapor or fluid) same refractory and furnace and (copper or Cu or steel)	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:07
S60	653	(nozzle or tuyere) same (gas or vapor or fluid) same refractory and furnace and (copper or Cu or steel) and "266".clas.	US-PGPUB; USPAT; USOOR; EPO; JPO	ADJ	ON	2008/09/23 17:08

S61	579	(nozzle or tuyere) same (gas or vapor or fluid) same refractory and furnace and (copper or Cu or steel) and "266".clas. and metal	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 17:08
S62	404	(nozzle or tuyere) same (gas or vapor or fluid) same refractory same furnace and (copper or Cu or steel) and "266".clas. and metal	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 17:08
S63	308	(nozzle or tuyere) same (gas or vapor or fluid) same refractory same furnace same metal and (copper or Cu or steel) and "266".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 17:08
S64	10	("1362702" "2023025" "3031178" "3558119" "3831918" "4043542").PN. OR ("4572487").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/23 17:18
S65	10137	uwe.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/23 17:34
S66	7	zulehner.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/23 17:34
S67	12	zulehner.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 17:35
S68	11	grinnofer.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/23 17:35
S69	12	("3076085" "4228314" "4533385" "4592066" "4617671" "4749408" "5052018").PN. OR ("5371759").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/24 18:12

S70	22	(US-20010033046-\$ or US-20020158377-\$ or US-20030090043-\$).did. or (US-3330645-\$ or US-3971548-\$ or US-4023676-\$ or US-4138098-\$ or US-4249719-\$ or US-4424955-\$ or US-4746038-\$ or US-4930757-\$ or US-4951929-\$ or US-5198179-\$ or US-5257280-\$ or US-5371759-\$ or US-5458320-\$ or US-5465942-\$ or US-5744050-\$ or US-5803948-\$ or US-5863490-\$ or US-5871785-\$).did. or (US-3330645-\$).did.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/24 18:21
S71	3	S70 and spacer	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/24 18:21
S72	3	S70 and thread	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/24 18:22
S73	22	(US-20010033046-\$ or US-20020158377-\$ or US-20030090043-\$).did. or (US-3330645-\$ or US-3971548-\$ or US-4023676-\$ or US-4138098-\$ or US-4249719-\$ or US-4424955-\$ or US-4746038-\$ or US-4930757-\$ or US-4951929-\$ or US-5198179-\$ or US-5257280-\$ or US-5371759-\$ or US-5458320-\$ or US-5465942-\$ or US-5744050-\$ or US-5803948-\$ or US-5863490-\$ or US-5871785-\$).did. or (US-3330645-\$).did.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/25 09:44
S74	3	S73 and engage	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 09:44
S75	1	"20060273500"	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 09:46

S76	19294	outer same inner same (pipe or tuyere or nozzle) same thread	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 09:48
S77	455	outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same thread	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 09:48
S78	19	outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same thread and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 09:56
S79	66	outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same (groove or screw) and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/09/25 10:54
S80	2	("3330645").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/25 11:50
S81	350	:266/217.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/04 11:24
S82	410	:266/280.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/04 11:24
S83	301	"266".clas. and nozzle same refractory and gas and metal and (jacket or cover\$3) and (nozzle same furnace)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:24
S84	34	:266/268.ccls. and nozzle and refractory	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:24
S85	34	:266/268.ccls. and nozzle and refractory	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:24

S86	350	:266/217.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/03/04 11:24
S87	35	:S86 and nozzle same refractory and gas	US-PGPUB; USPAT	ADJ	ON	2009/03/04 11:24
S88	62	"266".clas. and nozzle same refractory and gas and metal and (heat\$3 near2 element)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S89	268	:266/220.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S90	862	:266/99.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S91	217	:266/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S92	148	:266/268.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S93	1468	:S89 or S90 or S91 or S92	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S94	194	:S93 and nozzle same (gas or vapor)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25

S95	124	\$94 and refract\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:25
S96	66	\$95 and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:26
S97	55	\$96 and (copper or Cu or steel)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:26
S98	66	outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same (groove or screw) and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/03/04 11:26
S99	269	266/220.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S100	866	266/99.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S101	218	266/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S102	149	266/268.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14

S103	1475	\$99 or S100 or S101 or S102	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S104	196	\$103 and nozzle same (gas or vapor)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S105	125	\$104 and refract\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S106	67	\$105 and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S107	56	\$106 and (copper or Cu or steel)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S108	66	outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same (groove or screw) and furnace	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2009/07/10 11:14
S118	3497	266/99,100,217,218,220,265,268,280.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/07/13 10:15
S119	302	\$118 and (nozzle or tuyere).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/07/13 10:15

S120	294	S119 and (gas or metal or molten)	US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT	ADJ	ON	2009/07/13 10:15
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S109	16378	(nozzle and furnace and (metal or molten or melt\$4))	USPAT; UPAD	ADJ	ON	2009/07/10 11:08
S110	567	(nozzle and furnace and (metal or molten or melt\$4)).clm.	USPAT; UPAD	ADJ	ON	2009/07/10 11:08
S111	105	(nozzle and furnace and (metal or molten or melt\$4) and refractory).clm.	USPAT; UPAD	ADJ	ON	2009/07/10 11:09
S112	25	(nozzle same furnace same (metal or molten or melt\$4) same refractory).clm.	USPAT; UPAD	ADJ	ON	2009/07/10 11:10
S113	12	(nozzle same furnace same (metal or molten or melt\$4) same refractory same gas).clm.	USPAT; UPAD	ADJ	ON	2009/07/10 11:10
S114	84	(nozzle same furnace same (metal or molten or melt\$4) same gas).clm.	USPAT; UPAD	ADJ	ON	2009/07/10 11:12
S115	56	266/218.ccls. and nozzle	USPAT; UPAD	ADJ	ON	2009/07/10 11:41
S116	75	266/218.ccls. and (nozzle or tuyere) and gas	USPAT; UPAD	ADJ	ON	2009/07/10 11:41
S117	50	266/218.ccls. and (nozzle or tuyere) and gas and (nozzle or tuyere).clm.	USPAT; UPAD	ADJ	ON	2009/07/10 11:42
S121	1790	266/99,100,217,218,220,265,268,280.ccls.	USPAT; UPAD	ADJ	ON	2009/07/13 10:16
S122	264	S121 and (nozzle or tuyere).clm.	USPAT; UPAD	ADJ	ON	2009/07/13 10:16

S123	257	S122 and (gas or metal or molten)	USPAT; UPAD	ADJ	ON	2009/07/13 10:16
S124	186	S123 and refractory	USPAT; UPAD	ADJ	ON	2009/07/13 10:16
S125	325	S121 and (nozzle or tuyere) same (gas or metal or molten or melt\$4) and refractory	USPAT; UPAD	ADJ	ON	2009/07/13 10:31
S126	216	S121 and (nozzle or tuyere) same (gas or metal or molten or melt\$4) same refractory	USPAT; UPAD	ADJ	ON	2009/07/13 10:31
S127	66	S121 and ((nozzle or tuyere) same (gas or metal or molten or melt\$4) same refractory).clm.	USPAT; UPAD	ADJ	ON	2009/07/13 10:35

7/13/2009 11:13:01 AM

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